

Mark Scored:

KATHMANDU UNIVERSITY  
End Semester Examination  
February/March, 2019

FEB 25 2019

Level : B. Sc.

Year : IV

Course : ENVS 440

Semester: I

Exam Roll No. :

Time: 30 mins.

F. M. : 20

Registration No.:

Date :

SECTION "A"

[40 Q. × 0.5 = 20 marks]

Mark "X" in the most appropriate answer box.

1. The earliest crop recorded on the basis of archaeological record  
 Barley                       Figs                       Lentil                       Wheat
2. According to the Food Agriculture Organization, to meet the food need of the people in the year 2050, the food production in the world has to be increased by  
 90%                       70%                       50%                       30%
3. According to the report "Who owns Nature?", the World's fifth largest agrochemical company as well as World's biggest seed company  
 Bayer                       DuPont                       Monsanto                       Syngenta
4. Clearing and burning of primary and secondary forests create temporary growing areas for cultivation and such areas are called  
 Engraving                       Firebush                       Slashdot                       Swiddens
5. Pesticides usually have negative effects but among the following, it is not considered as pesticide use problem  
 Bioaccumulation                       Malaria control  
 Persistence                       Resistant varieties
6. According to the agricultural development process, 'yoke and oxen' represents  
 Bronze age                       Golden age                       Iron age                       Silver age
7. This practice is less responsible for the process of desertification  
 Contour plowing                       Intensive farming  
 Poor forestry practices                       Overgrazing
8. The agriculture was first practiced by, as per "the probability theory",  
 Cultivars                       Fishermen                       Herders                       Nomads
9. The childhood stunting due to food and nutrition in Nepal is still about  
 10%                       30%                       50%                       70%
10. In developing countries and nomadic herding times, in agricultural sector, the input was maximum of  
 Capital                       Energy                       Labour                       Land
11. Nepalese farmers do not consider this crop as 'cash crop'  
 Banana                       Millet                       Sugarcane                       Tea

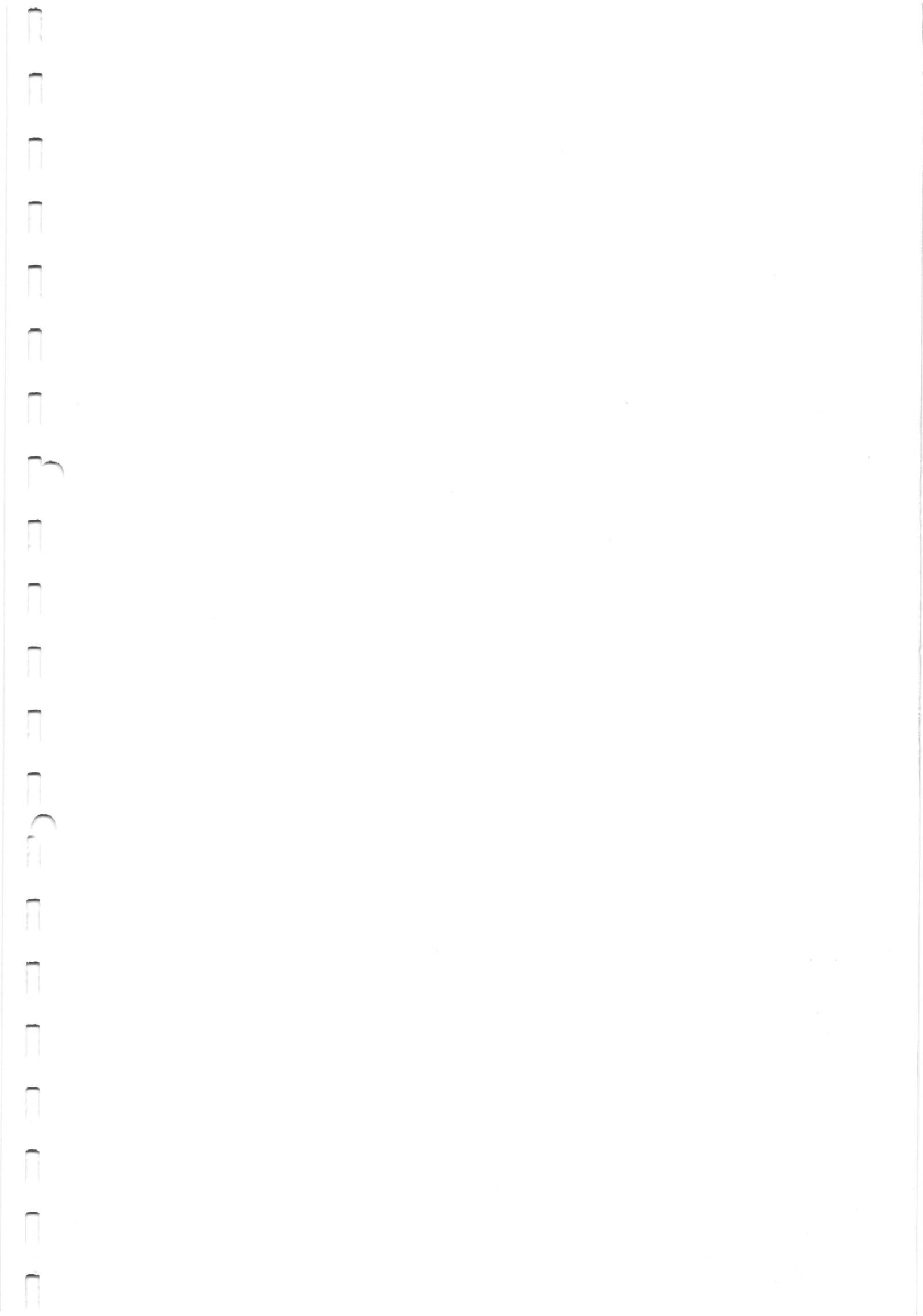
12. The specific term that describes the science and art of cultivation of crops  
 Viticulture       Viniculture       Sericulture       Horticulture
13. Higher inputs of labour, fertilizers and pesticides to obtain maximum output from the cultivation is defined as  
 Agricultural intensification                       Ecological cultivation  
 Organic farming     Traditional farming
14. The prediction of food gap between 2006 and 2050 as per the World Resources Institute,  
 7%                       27%                       50%                       70%
15. Among the following, the earlier hunter-gathers started settlement from  
 Ecuador                       Fertile Crescent       Mexico                       Pacific island
16. In green revolution time, undesirable product, "Killer Bees" were produced by the combination of  
 Aggressive and high honey producing bee  
 Aggressive and low honey producing bee  
 Mild mannered and high honey producing bee  
 Mild mannered and low honey producing bee
17. In the production of ethanol fuel, coarse grains use during the period 2007-2008 in the world was  
 1%                       5%                       10%                       15%
18. Sustainable agriculture consider this option as one of the last option  
 Agricultural intensification                       Non-meat alternative  
 Organic farming     Research in sustainable techniques
19. In terms of contribution, intensive cultivation requires maximum input from  
 Capital                       Energy                       Labour                       Land
20. Usually the higher soil erosion is recorded from the crop field of  
 Maize                       Potato                       Soyabean                       Wheat

Fill the gaps with appropriate word/s or value.

21. The country that feeds 22% of world's population through its grain production .....
22. The farming system which involved soil, agronomy, weed and pest management, input, output, marketing, and human health is .....
23. Climate change is supposed to affect all three dimensions of food security: availability, accessibility, and .....
24. It is an agricultural system which commits to satisfy present and future human food and fiber needs as well as the quality of life for farmers and society in future.....

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25. As per the agricultural development history, insecurity and social unrest in the society increased along with the increase of .....
26. The behavior of young animal to follow the first living thing it sees and hears is also known as .....
27. Pisciculture is the cultivation and breeding of .....
28. As per the classification of Land use policy of Nepal, the area under cereal crops, cash crops, horticulture, animal husbandry, fisheries, private forest or plantation in private land is .....
29. There is sufficient food to feed the world but in the present scenario, one in every ..... people goes to bed hungry at night.
30. Depth of food deficit is expressed in unit .....
31. Changes in climate and human activities deteriorate land usually in arid, semiarid, and dry sub humid areas and called as .....
32. Land capability classes I to IV are usually used for .....
33. When seed cultures moved from highlands to valleys, irrigation and ..... systems were developed.
34. By the year 2030, a hectare of land will be feeding more than ..... people but it was feeding only two people during 1960.
35. When Nepal government grant national forest for the specified purpose(s) to a legally defined institution, forest-based industry or community, then that type of forest is called as.....
36. The process of using/training/converting wild plants and animals to be useful to people.....
37. The process of cultivating the crops altering from season-to-season to minimize insect's damage .....
38. Equity and equality are strategies to produce fairness. If we provide everyone what they need to be successful is.....
39. The major five cereals of Nepal are Rice, maize, wheat, barley and .....
40. In the past, the societies that viewed children as economic assets were .....



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SECTION "B"

[3Q × 7 = 21 marks]

Attempt *ANY THREE* questions:

1. Considering the global context write on the development of agriculture.
2. What are the challenges and opportunities in agricultural sector of Nepal?
3. Link economic development and agriculture with some examples.
4. How agriculture affects environment and vice versa? Explain one of the most important effects.

SECTION "C"

5. Write short notes on (*ANY FOUR*): [4Q × 3=12]
  - a. Crops of Nepal
  - b. Land classification
  - c. Food security
  - d. Green revolution
  - e. Agricultural calendar
6. Differentiate between: [4Q × 3=12]
  - a. Mono and relay cropping
  - b. Integrated and permaculture farming
  - c. Benefits and consequences of pesticides
  - d. Land use planning and land management
7. Give reasons why? [5Q × 2 = 10]
  - a. Environmental deterioration stated with the presence of human
  - b. Commercial farming effects land quality
  - c. Human resource is important for agriculture
  - d. Agricultural products import is increasing in Nepal
  - e. Pesticides use is not only the solution in agricultural sector

